

Metric Efficient Line Cast-iron IEC Motors

Chile-Argentina-Bolivia



MOTOR METRIC EFFICIENT LINE CAST-IRON (MELC) SINGLE MOUNTING POSITION F3

Three Phase, IEC Motors IE2 Efficient All Cast-iron, IP55 Severe Duty Footed IM1001 (B3)



Chile-Argentina-Bolivia

APPLICATIONS:

For severe duty environments found in the pulp & paper, lumber, aggregates, mining, chemical and other industries.

FEATURES:

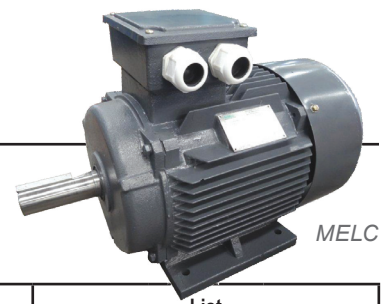
- Fully comply with IEC 60034, 60038, 60072 and IE2 efficiency standards
- 40°C ambient, continuous duty
- Altitude 1000 m
- Sealed bearings of same size on both ends Frame 80 to 160
- Regreasable bearings of the same size on both ends Frame 180 to 355
- Grease type Polyrex-EM
- Corrosion resistant mill & chemical duty paint RAL 7024 Grey
- VPI, Class F insulation system, 80K rise at full load on sine wave power
- Stainless steel nameplate and zinc plated hardware
- Shaft seal ring for IP55 protection
- Lifting provisions
- F3 mounting Only
- Frequency 50Hz
- 380v/660v ± 10% @ 50 Hz up to Frame 355 (315 kW)
- Suitable for DOL start Y 660v 50Hz
- Suitable for wye-delta start @ 380v 50Hz
- Winding connection: 380V Δ AND 660v Y
- Winding Protection: Dandong PTC (1 per phase) from 110KW and Up
- 6 Leads connection Y Δ with Conduit box suitable for 6 terminals
- Single Voltage nameplated @ 50Hz only
- SF 1.15 at 50 Hz @ Insulation class rise
- CE mark on nameplate
- Field convertible flange FF & FT kits available

KW	HP	Pole	IEC Frame	Catalog #	Model #	DS-Sym	Weight Kg	List		
				Motors F1 Mounting Position				B3	B5	B14
0.75	1	2	80M1	MELC075E1J	ELC301S	IE2SC	18	213	223	228
		4	80M2	MELC075E2J	ELC302S	IE2SC	19	270	284	289
		6	90S	MELC075E3J	ELC303S	IE2SC	26	314	330	336
1.1	1.5	2	80M2	MELC1E1J	ELC304S	IE2SC	20	228	239	244
		4	90S	MELC1E2J	ELC305S	IE2SC	24	321	337	344
		6	90L	MELC1E3J	ELC306S	IE2SC	29	380	399	407
1.5	2	2	90S	MELC32E1J	ELC307S	IE2SC	23	291	306	312
		4	90L	MELC32E1J	ELC308S	IE2SC	31	376	394	402
		6	100L	MELC32E1J	ELC309S	IE2SC	36	445	467	476
2.2	3	2	90L	MELC2E1J	ELC310S	IE2SC	28	328	344	351
		4	100L1	MELC2E2J	ELC311S	IE2SC	36	491	516	525
		6	112M	MELC2E3J	ELC312S	IE2SC	46	566	594	605
3	4	2	100L	MELC3E1J	ELC313S	IE2SC	36	457	480	489
		4	100L2	MELC3E2J	ELC314S	IE2SC	38	561	589	600
		6	132S	MELC3E3J	ELC315S	IE2SC	58	722	758	
4	5	2	112M	MELC4E1J	ELC316S	IE2SC	45	548	575	586
		4	112M	MELC4E2J	ELC317S	IE2SC	49	683	717	731
		6	132M1	MELC4E3J	ELC318S	IE2SC	69	814	855	
4.4	6	2	112M2	MELC4X4E1J	ELC319S	IE2SC	48	577	605	617
		4	112M2	MELC4X4E2J	ELC320S	IE2SC	52	722	758	
		6	132M2	MELC4X4E3J	ELC321S	IE2SC	74	850	892	
5.5	7.5	2	132S1	MELC5E1J	ELC322S	IE2SC	64	767	805	
		4	132S	MELC5E2J	ELC323S	IE2SC	67	883	927	
		6	132M2	MELC5E3J	ELC324S	IE2SC	78	966	1014	
7.5	10	2	132S2	MELC7E1J	ELC325S	IE2SC	66	840	882	
		4	132M	MELC7E2J	ELC326S	IE2SC	79	1017	1068	
		6	160M	MELC7E3J	ELC327S	IE2SC	108	1385	1454	
9.2	12.5	2	132M	MELC9E1J	ELC328S	IE2SC	73	963	1011	
		4	160M1	MELC9E2J	ELC329S	IE2SC	104	1350	1417	
		6		MELC9E3J	ELC330S					
11	15	2	160M1	MELC11E1J	ELC331S	IE2SC	106	1374	1442	
		4	160M	MELC11E2J	ELC332S	IE2SC	114	1435	1507	
		6	160L	MELC11E3J	ELC333S	IE2SC	135	1679	1763	

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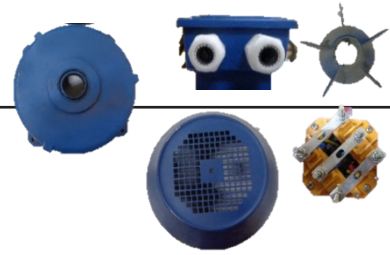


Chile-Argentina-Bolivia

KW	HP	Pole	IEC Frame	Catalog #	Model #	DS-Sym	Weight Kg	List		
				Motors F1 Mounting Position				B3	B5	B14
15	20	2	160M2	MELC15E1J	ELC334S	IE2SC	118	1524	1600	
		4	160L	MELC15E2J	ELC335S	IE2SC	133	1691	1776	
		6	180L	MELC15E3J	ELC336S	IE2SC	180	2143	2250	
18.5	25	2	160L	MELC19E1J	ELC337S	IE2SC	130	1664	1748	
		4	180M	MELC19E2J	ELC338S	IE2SC	168	2171	2280	
		6	200L	MELC19E3J	ELC339S	IE2SC	220	2440	2562	
22	30	2	180M	MELC22E1J	ELC340S	IE2SC	178	2232	2344	
		4	180L	MELC22E2J	ELC341S	IE2SC	188	2405	2526	
		6	200L	MELC22E3J	ELC342S	IE2SC	230	2714	2850	
30	40	2	200L	MELC30E1J	ELC343S	IE2SC	220	2577	2706	
		4	200L	MELC30E2J	ELC344S	IE2SC	243	2959	3107	
		6	225M	MELC30E3J	ELC345S	IE2SC	277	3464	3638	
37	50	2	200L2	MELC37E1J	ELC346S	IE2SC	233	2854	2997	
		4	225S	MELC37E2J	ELC347S	IE2SC	282	3591	3770	
		6	250M	MELC37E3J	ELC348S	IE2SC	360	4180	4389	
45	60	2	225M	MELC45E1J	ELC349S	IE2SC	300	3578	3757	
		4	225M	MELC45E2J	ELC350S	IE2SC	312	3936	4133	
		6	280S	MELC45E3J	ELC351S	IE2SC	470	5558	5836	
55	75	2	250M	MELC55E1J	ELC352S	IE2SC	389	4346	4563	
		4	250M	MELC55E2J	ELC353S	IE2SC	403	5065	5319	
		6	280M	MELC55E3J	ELC354S	IE2SC	538	6349	6667	
75	100	2	280S	MELC75E1J	ELC355S	IE2SC	482	6075	6378	
		4	280S	MELC75E2J	ELC356S	IE2SC	550	6877	7221	
		6	315S	MELC75E3J	ELC357S	IE2SC	874	9147	9605	
90	125	2	280M	MELC90E1J	ELC358S	IE2SC	536	6756	7094	
		4	280M	MELC90E2J	ELC359S	IE2SC	640	7796	8186	
		6	315M	MELC90E3J	ELC360S	IE2SC	877	10469	10992	
110	150	2	315S	MELC110E1J	ELC361S	IE2SC	802	9988	10487	
		4	315S	MELP110E2J	ELC362S	IE2SC	838	11092	11646	
		6	315L1	MELC110E3J	ELC363S	IE2SC	988	11932	12528	
132	175	2	315M	MELC132E1J	ELC364S	IE2SC	946	11035	11587	
		4	315M	MELC132E2J	ELC365S	IE2SC	930	12243	12855	
		6	315L2	MELC132E3J	ELC366S	IE2SC	1116	13515	14190	
160	200	2	315L1	MELC160E1J	ELC367S	IE2SC	990	11780	12369	
		4	315L1	MELC160E2J	ELC368S	IE2SC	1022	13569	14247	
		6	355M1	MELC160E3J	ELC369S	IE2SC	1506	19396		
185	250	2	315L	MELC185E1J	ELC370S	IE2SC	1025	12880	13524	
		4	315L	MELC185E2J	ELC371S	IE2SC	1094	14186	14896	
		6	355M2	MELC185E3J	ELC372S	IE2SC	1512	20821		
200	270	2	315L2	MELC200E1J	ELC373S	IE2SC	1095	13108	13764	
		4	315L2	MELC200E2J	ELC374S	IE2SC	1160	14818	15559	
		6	355M3	MELC200E3J	ELC375S	IE2SC	1596	21838		
250	340	2	355M2	MELC250E1J	ELC376S	IE2SC	1718	23104		
		4	355M2	MELC250E2J	ELC377S	IE2SC	1800	22408		
		6	355L3	MELC250E3J	ELC378S	IE2SC	1847	24914		
315	430	2	355L2	MELC315E1J	ELC379S	IE2SC	1815	25851		
		4	355L2	MELC315E2J	ELC380S	IE2SC	1960	25175		
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Kit FF Flange

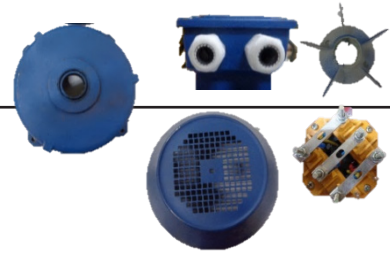
IEC Symbol	Motor Frame	For Cast-iron MELC			For Aluminum MELA	
		Nidec Catalog #	Comment	List	Nidec Catalog #	List
FF165	80	FF165ELC80	2-4-6 Poles	79	FF165ELA80	43
	90	FF165ELC90	2-4-6 Poles	89	FF165ELA90	45
FF215	100	FF215ELC100	2-4-6 Poles	138	FF215ELA100	70
	112	FF215ELC112	2-4-6 Poles	162	FF215ELA112	75
FF265	132	FF265ELC132	2-4-6 Poles	238	FF265ELA132	110
FF300	160	FF300ELC160	2-4-6 Poles	365		
	180	FF300ELC180	2-4-6 Poles			
FF350	200	FF350ELC200	2-4-6 Poles	522		
FF400	225	FF400ELC225-2	2 Poles Only	634		
		FF400ELC225	4 & 6 Poles			
FF500	250	FF500ELC250-2	2 Poles Only	896		
		FF500ELC250	4 & 6 Poles			
	280	FF500ELC280-2	2 Poles Only	1054		
		FF500ELC280	4 & 6 Poles			
FF600	315	FF600ELC315-2	2 Poles Only	1497		
		FF600ELC315	4 & 6 Poles			

Kit FT Flange

IEC Symbol	Motor Frame	For Cast-iron MELC			For Aluminum MELA	
		Nidec Catalog #	L.A Model #	List	Nidec Catalog #	List
FT100	80	FT100ELC80	80 B14	84	FT100ELA80	45
FT115	90	FT115ELC90	90 B14	94	FT115ELA90	50
FT130	100	FT130ELC100	100 B14	147	FT130ELA100	80
FT130	112	FT130ELC112	112 B14	172	FT130ELA112	90
FT215	132	FT215ELC132	132 B14		FF265ELA132	130

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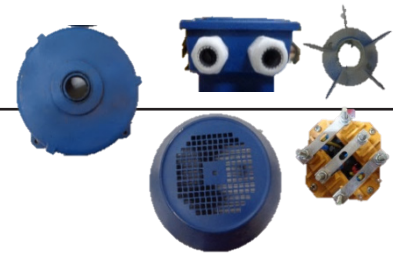


Plastic Fan

Motor Type	Motor Frame	Poles	List	Nidec Catalog #	List
MELA, MELC	80	All	5	FAN80EL	5
MELA, MELC	90	2 only	5	FAN80-2EL	5
MELA, MELC	90	4 & 6	5	FAN80EL	5
MELA, MELC	100	All	10	FAN100EL	10
MELA, MELC	112	2 only	15	FAN112-2EL	15
MELA, MELC	112	4 & 6 & 8	15	FAN112EL	15
MELA, MELC	132	2 only	20	FAN132-2EL	20
MELA, MELC	132	4 & 6 & 8	20	FAN132EL	20
MELA, MELC	160	2 only	25	FAN160-2EL	25
MELA, MELC	160	4 & 6 & 8	30	FAN160EL	30
MELC	180	2 & 4	35	FAN180-2-4ELC	35
MELC	180	6 & 8	40	FAN180-6-8ELC	40
MELC	200	2 only	45	FAN200-2ELC	45
MELC	200	4 & 6 & 8	50	FAN200ELC	50
MELC	225	2 only	60	FAN225-2ELC	60
MELC	225	4 & 6 & 8	75	FAN225ELC	75
MELC	250	2 only	80	FAN250-2ELC	80
MELC	250	4 & 6 & 8	100	FAN250ELC	100
MELC	280	2 only	110	FAN280-2ELC	110
MELC	280	4 & 6 & 8	150	FAN280ELC	150
MELC	315 & 355	2 only *	300	FAN300-2ELC	300
MELC	315 & 355	4 only *	300	FAN300-4ELC	300
MELC	315 & 355	6 & 8 *	300	FAN300-6-8ELC	300

* Aluminum





Fan Cover

Motor Type	Motor Frame	Horizontal Mount		Vertical Mount	
		Nidec Catalog #	List	Nidec Catalog #	List
MELA, MELC	80	FCG80EL	13	FCV80EL	25
MELA	90	FCG90ELA	17	FCV90ELA	35
MELC	90	FCG90ELC	17	FCV90ELC	35
MELA, MELC	100	FCG100EL	20	FCV100EL	40
MELA	112	FCG112ELA	22	FCV112EL	45
MELC	112	FCG112ELC	22	FCV112ELC	45
MELA, MELC	132	FCG132EL	32	FCV132EL	65
MELA, MELC	160	FCG160EL	55	FCV160EL	110
MELC	180	FCG180ELC	80	FCV180ELC	160
MELC	200	FCG200ELC	110	FCV200ELC	220
MELC	225	FCG225ELC	140	FCV225ELC	280
MELC	250	FCG250ELC	170	FCV250ELC	340
MELC	280	FCG280ELC	200	FCV280ELC	400
MELC	315	FCG315ELC	300	FCV315ELC	600
MELC	355	FCG355ELC	560	FCV355ELC	1100

Conduit Box and Terminal Board

Motor Type	Motor Frame	Conduit Box				Terminal Board	
		MELC Cast-iron Frame		MELA Aluminum Frame		MELC & MELA	
		Nidec Catalog #	List	Nidec Catalog #	List	Nidec Catalog #	List
	80	CB80ELC	20	CB80ELA	30	TB80EL	15
	90	CB90ELC	30	CB90ELA	40	TB90EL	18
	100	CB100ELC	30	CB100ELA	40	TB100EL	18
	112	CB112ELC	40	CB112ELA	60	TB112EL	20
	132	CB132ELC	40	CB132ELA	60	TB132EL	20
	160	CB160ELC	60	CB160ELZ	180	TB160EL	40
	180	CB180ELC	60			TB180ELC	40
	200	CB200ELC	90			TB200ELC	90
	225	CB225ELC	90			TB225ELC	90
	250	CB250ELC	120			TB250ELC	150
	280	CB280ELC	120			TB280ELC	150
	315	CB315ELC	300			TB315ELC	700
	355	CB355ELC	300			TB355ELC	1300

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